

XP-002283004

AN - 2003-665995 [63]

AP - JP20010062756 20010307

CPY - SEGK

DC - A11 A96 B04

FS - CPI

IC - A61K31/726 ; A61K31/727 ; A61K45/00 ; A61P25/00 ; A61P43/00 ; C08B37/08

MC - A03-A00A A12-V01 B04-C02E2 B04-H06D B04-H06G B14-C01 B14-L01

M1 - [01] M423 M431 M782 M905 Q110 Q130; RA0367-K RA0367-M

- [02] M423 M431 M782 M905 Q110 Q130; RA04QH-K RA04QH-M

- [03] C316 F012 F013 F014 F015 F016 F019 F123 F199 H4 H405 H424 H484 H5

H522 H8 J0 J013 J014 J1 J173 J321 J322 K0 K353 K399 K421 K499 L6 L660

L699 L8 L810 L817 L824 L831 L834 M210 M211 M262 M280 M281 M282 M283

M311 M312 M313 M323 M332 M342 M343 M344 M349 M373 M381 M383 M393 M423

M431 M510 M523 M530 M540 M782 M904 M905 P411 Q110 Q130; 0100-61701-K

0100-61701-T 0100-61701-M

PA - (SEGK) SEIKAGAKU KOGYO CO LTD

PN - JP2002265369 A 20020918 DW200363 A61K31/726 007pp

PR - JP20010062756 20010307

XA - C2003-181114

XIC - A61K-031/726 ; A61K-031/727 ; A61K-045/00 ; A61P-025/00 ; A61P-043/00 ;
C08B-037/08

AB - JP2002265369 NOVELTY - Intensifier of growth factor activity comprises
glycosaminoglycan derivative or its salts as active ingredient whose
average molecular weight is 4,000 to 20,000 Dalton and which has more
than one basic structure in one molecule of glycosaminoglycan.

- DETAILED DESCRIPTION - Intensifier of growth factor activity comprises
glycosaminoglycan derivative or its salts as active ingredient whose
average molecular weight is 4,000 to 20,000 Dalton and which has more
than one basic structure of formula (I) in one molecule of
glycosaminoglycan.

- R1 = H or SO₃H;

- R2 = COCH₃ or SO₃H.

- An INDEPENDENT CLAIM is also included for the composition containing
the above intensifier and the growth factor.

- ACTIVITY - Analgesic. Nerve cell strain of PC12D was cultured in the
presence of PO2DSH as a sample and standard heparin as a control in
Dulbecco's modified eagle medium (DMEM) containing NGF (1 ng/ml, 10
ng/ml or 50 ng/ml) for 24 hours in a CO₂ incubator. The growth of
neurite in each medium was observed. The results show that the
addition of PO2DSH gave the same growth of neurite as when 50 ng/ml of
NGF was added even though NGF's actual concentration was 1 ng/ml. This
proved that PO2DSH greatly increased the activity of NGF.

- MECHANISM OF ACTION - Growth Factor Stimulator.

- USE - The intensifier of growth factor activity is used to decrease
side effects such as pains caused by growth factor itself.

- ADVANTAGE - Glycosaminoglycan derivative intensifies nerve growth
factor (NGF) and fibroblast growth factor (FGF) activities.

- (Dwg.0/0)

CN - RA0367-K RA0367-M RA04QH-K RA04QH-M 0100-61701-K 0100-61701-T
0100-61701-M

IW - NEW INTENSIFY GROWTH FACTOR ACTIVE CONTAIN GLYCOSAMINOGLYCAN

DERIVATIVE LOWER ACTIVE ANTI BLOOD COAGULATE DECREASE SIDE EFFECT
CAUSE GROWTH FACTOR
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CAUSE GROWTH FACTOR

NC - 001

OPD - 2001-03-07

ORD - 2002-09-18

PAW - (SEGK) SEIKAGAKU KOGYO CO LTD

TI - New intensifier of growth factor activity, containing
glycosaminoglycan derivative, having lower activity of anti-blood
coagulation and decreases side effects caused by growth factor